

## Standard Detail Drawing 8d5 (sheet a)

February 24, 2010

Curb Ramps Types 1 and 1-A

**References:** <u>FDM 11-25-30</u> and <u>FDM 11-20-1</u>

#### Bid items associated with this drawing:

<u>ltem #</u>	<u>Title</u>
601.0600	Concrete Curb Pedestrian (LF)
602.0505	Curb Ramp Detectable Warning Field Yellow (SF)
602.0510	Curb Ramp Detectable Warning Field White (SF)
602.0515	Curb Ramp Detectable Warning Field Natural Patina (SF)
602.0405	Concrete Sidewalk 4" (SF)
602.0410	Concrete Sidewalk 5" (SF)
602.0415	Concrete Sidewalk 6" (SF)
602.0420	Concrete Sidewalk 7" (SF)
646.0113 - 646.0119	Pavement Marking (Material) 6-inch (LF)
647.0763 - 647.0769	Pavement Marking Crosswalk (Material) 6-inch (LF)

#### Standardized Special Provisions associated with this drawing: None

**Other SDDs associated with this drawing:** 8D5-b, c, d & e and 15C8-sheet 'e' are required when this drawing is called for in the plans.

**Design Notes:** The Type 3 should be used only when there may be utilities or other fixed objects in the way of the curb ramp installation and cannot be relocated.

The Product Acceptable List (PAL) has only cast iron products for the Detectable Warning Field (DWF). The typical size of DWF panel in cast iron is 2 ft x 2 ft. Other cast iron panel sizes available include 2 ft x 1 ft, 2 ft x 1.5 ft, 2 ft x 2.5 ft, and 2 ft x 3 ft. The site-specific application will always be wider than 2 feet, thus multiple DWF panels are required for each installation. In many applications it may be desirable to stagger the panel longitudinally to allow a panel to be installed close to the back of curb. Do not stagger the panels transversely across the sidewalk or path.

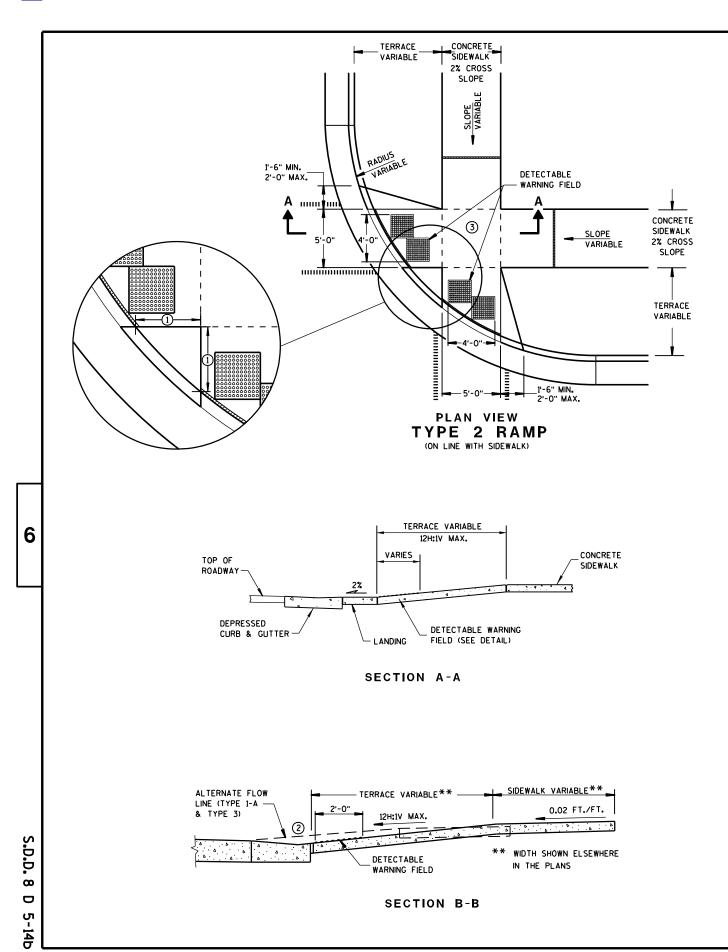
The Detectable Warning Field shall be installed in fresh concrete. The area under the Detectable Warning Field is paid as concrete sidewalk. Do not install the Detectable Warning Field in or on asphaltic pavement.

Do not install drainage grates in the path of curb ramp or sidewalk users. Slope the gutter pan so the curb ramp area will drain away from the pedestrian crossing.

Shared use paths are typically 10 ft wide, with some 8ft and some 12 ft. The Detectable Warning Field shall extend from 0 inches to 6 inches from the edge of the paved portion of the path width. Do not provide space between multiple panels. Using the typical panel sizes mentioned above. A 10-ft wide path would need  $5 - 2' \times 2'$  panels to cover the full width, or  $4 - 2' \times 2'$  and  $1 - 2' \times 1'$  panel thus leaving 6 inches of concrete at the outside edge of the path.

The yellow border pavement marking is not required with the use of the Detectable Warning Field. See SDD 8D5-b for Curb Ramp pay items used for restriping of curb ramp markings.

Contact Person: Pat Fleming (608) 266-8486 Debby Kozol (608) 266-5096



#### **GENERAL NOTES**

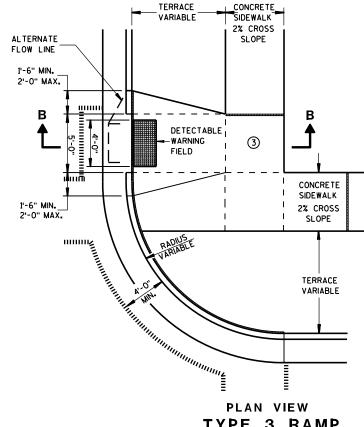
USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

- 1) WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP, REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.
- 2 GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
- 3 PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

#### LEGEND

/2" EXPANSION JOINT-SIDEWALK - - - - CONTRACTION JOINT FIELD LOCATED HIHIHIHI PAVEMENT MARKING CROSSWALK (WHITE)

— ALTERNATIVE LAYOUT



TYPE 3 RAMP (OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  $\infty$ Ġ

6

# **Standard Detail Drawing 8d5** (sheet b)

February 24, 2010

Curb Ramps Types 2 and 3

**References:** <u>FDM 11-25-30</u> and <u>FDM 11-20-1</u>

### Bid items associated with this drawing:

<u>Item # Title</u>

601.0600 Concrete Curb Pedestrian (LF)

See Sheet 'a'

Standardized Special Provisions associated with this drawing: See Sheet 'a'.

**Other SDD's associated with this drawing:** 8D5-a, c, d, e and 15C8- sheet 'e' are required when this drawing is called for in the plans.

Design Notes: See Sheet 'a'.

Curb Ramp pay items used for restriping of curb ramp markings are as follows

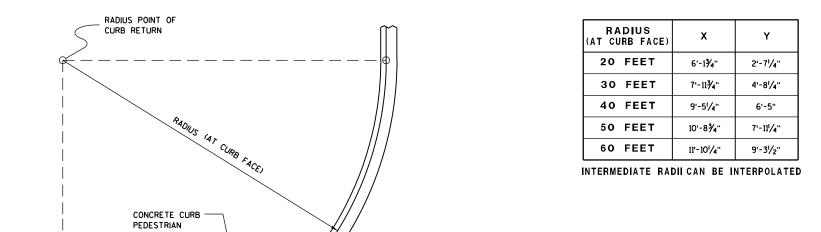
647.0503 Pavement Marking Curb Ramp Paint
647.0506 Pavement Marking Curb Ramp Epoxy

3. 647.0509 Pavement Marking Curb Ramp Preformed Plastic

Contact Person: Pat Fleming (608) 266-8486



1/2" EXPANSION JOINT



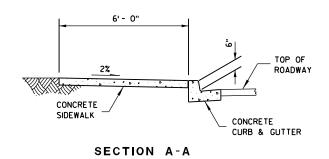
### **GENERAL NOTES**

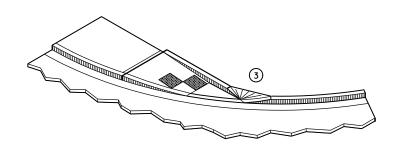
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.





ISOMETRIC VIEW

# CURB RAMP TYPE 4A PLAN VIEW

DISTANCE

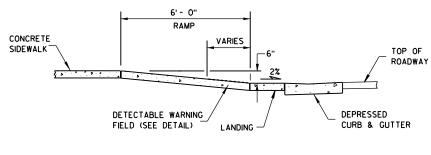
FROM P.C.

LANDING

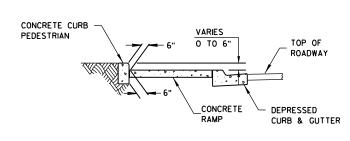
DETECTABLE WARNING

FIELD (SEE DETAIL)

MAY STAGGER TO BEST FIT RADIUS



SECTION B-B



SECTION C-C

### LEGEND

1/2" EXPANSION JOINT-SIDEWALK CONTRACTION JOINT FIELD LOCATED HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4A

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 5-14c

6

'n  $\infty$ S.D.D.

6

# **Standard Detail Drawing 8d5** (sheet c)

February 24, 2010

Curb Ramps Type 4A

**References:** <u>FDM 11-25-30</u> and <u>FDM 11-20-1</u>

Bid items associated with this drawing:

<u>Item #</u> <u>Title</u>

601.0600 Concrete Curb Pedestrian (LF)

See Sheet 'a'.

620.0300 Concrete Median sloped Nose (SF)

Standardized Special Provisions associated with this drawing: See Sheet 'a'.

**Other SDD's associated with this drawing:** 8D5-a, b, d & e, 11B2 and 15C8-sheet 'e' are required when this drawing is called for in the plans.

Design Notes: See Sheet 'a'.

Contact Person: Pat Fleming (608) 266-8486

RADIUS POINT OF CURB RETURN

DETECTABLE WARNING FIELD

(SEE DETAIL) MAY STAGGER TO

CONCRETE CURB PEDESTRIAN

1/2" EXPANSION JOINT

TERRACE

6

S.D.D. 8 D

5-14d

CONCRETE CURB PEDESTRIAN —

6'-0"

RAMP

LANDING



## **GENERAL NOTES**

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

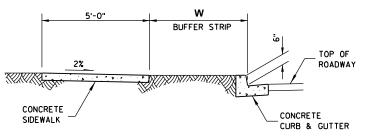
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"	
	х	Υ	х	Υ	х	Y	х	Υ	х	Y
20 FEET	5'-51/2"	4'-61/2"	4'-81/2"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-31/2"	3'-11/2"	9'-21/2"
30 FEET	7'-3¾"	7'-1"	6'-51/2"	8'-111/2"	5'-9'/4"	10'-7"	5'-21/2"	12'-0"	4'-8¾"	13'-3 <sup>1</sup> /4"
40 FEET	8'-9 /2"	9'-21/2"	7'-10"	11'-5'/4"	7'-1"	13'-41/2"	6'-5¾"	15'-¾"	5'-111/2"	16'-71/4"
50 FEET	10'-¾"	11'-3⁄4"	9'-1/4"	13'-71/4"	8'-2'/2"	15'-91/2"	7'-61/2"	17'-9"	6'-11¾"	19'-6'/4'
60 FEET	11'-2'/2"	12'-8¾"	10'-¾"	15'-61/2"	9'-2'/4"	17'-11¾"	8'-5¾"	20'-1¾"	7'-101/2"	22'-11/2'
70 FEET	12'-2¾"	14'-31/4"	11'-'/4"	17'-4"	10'-1"	19'-11¾"	9'-3¾"	22'-41/4"	8'-8'/4"	24'-6'/4'
80 FEET	13'-2"	15'-81/2"	11'-101/2"	18'-11¾"	10'-10¾"	21'-10"	10'-1"	24'-4¾"	9'-5"	26'-8¾'
90 FEET	14'- 1/2"	17'-1/2"	12'-81/4"	20'-61/2"	11'-7¾''	23'-7"	10'-9¾"	26'-3¾"	10'-1'/4"	28'-91/2
100 FEET	14'-101/2"	18'-3¾"	13'-51/2"	22'-0"	12'-41/4"	25'-2¾"	11'-5¾"	28'-1'/2"	10'-9"	30'-9"

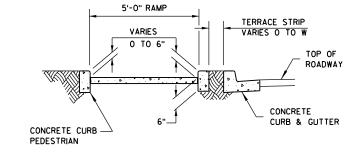
INTERMEDIATE RADII CAN BE INTERPOLATED



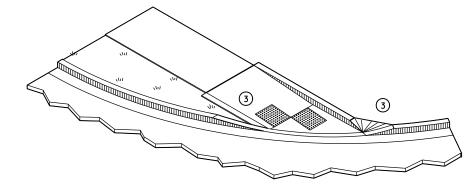
DISTANCE FROM P.C.



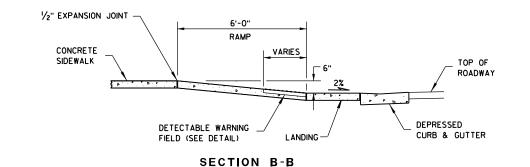
SECTION A-A



SECTION C-C



ISOMETRIC VIEW



#### LEGEND

1/2" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

5-14d ω S.D.D.

# **Standard Detail Drawing 8d5** (sheet d)

February 24, 2010

Curb Ramps Type 4B

**References:** <u>FDM 11-25-30</u> and <u>FDM 11-20-1</u>

Bid items associated with this drawing:

<u>Item # Title</u>

601.0600 Concrete Curb Pedestrian (LF)

See Sheet 'a'.

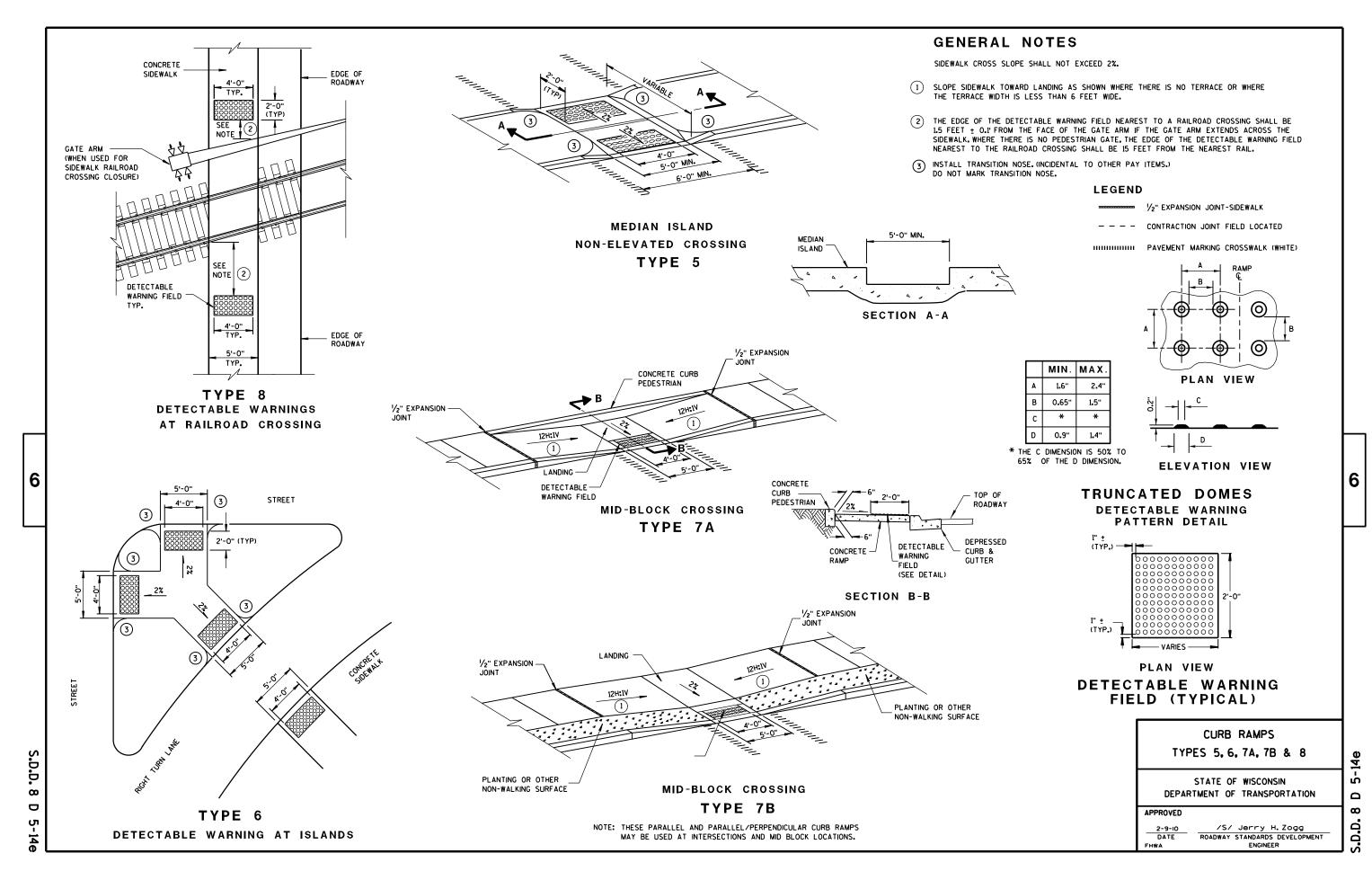
620.0300 Concrete Median sloped Nose (SF)

Standardized Special Provisions associated with this drawing: See Sheet 'a'.

**Other SDD's associated with this drawing:** 8D5-a, b, c, & e, 11B2 and 15C8- sheet 'e' are required when this drawing is called for in the plans.

Design Notes: See Sheet 'a'.

Contact Person: Pat Fleming (608) 266-8486



# **Standard Detail Drawing 8d5** (sheet e)

February 24, 2010

Curb Ramps Type 5, 6, 7A, 7B & 8

**References:** <u>FDM 11-25-30</u> and <u>FDM 11-20-1</u>

Bid items associated with this drawing:

<u>Item #</u> <u>Title</u>

601.0600 Concrete Curb Pedestrian (LF)

See Sheet 'a'.

620.0300 Concrete Median sloped Nose (SF)

Standardized Special Provisions associated with this drawing: See Sheet 'a'.

**Other SDDs associated with this drawing:** 8D5-a, b, c & d, 11B2 and 15C8- sheet 'e' required when this drawing is called for in the plans.

Design Notes: See Sheet 'a'.